

Product datasheet for **RR210500**

PPP4r1 (NM_080907) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PPP4r1 (NM_080907) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PPP4r1
Synonyms:	Pp4r1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



[View online »](#)

ORF Nucleotide
Sequence:

>RR210500 representing NM_080907
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGCATCGCC

ATGGCGGACCTCTCGCTGCTCCAGGAGGACCTGCCGGAGGACCGGACGGACTTGGTGTGGATGACTACA
 GCTCAGAGTCTGATGTGATTATTATACCTTCAGCCCTGGACTTCGCTCACAAGATGAAATGTTGACACC
 CTTGGGGAGGCTGGACAAGTATGCTGCAAGTGAGAACGCTTTAACAGACAAATGGTGGCCCGGAGTTTG
 CTGGATACTCTGAGGGAAGTCTGTGGTGGAGAGAGAGACTGCATTGCTGTCTTGGAAAGGATCAGCCGAT
 TGGCTGATGACTCAGAACCAACCGTGAGAGCCGAGCTGATGGAACAGGTGCCGCACATCGCACTGTTTTG
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 GCAGACCAGAATAACAGGTGAGGAAAACAGCCAGGCAGCTTTGCTGGCTCTGCTGGAGCAGGAGCTGA
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 CGATGTGAAGACAGAGGCCGTGGCTATAATGTGCAAGATGGCCCCATGGTTGGGAAAGATATTACAGAG
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 CTTCCAGCTGTGTTCTGACAATGTGTGGGGCGTCCGGAAGGCCTGTGCTGAGTGCTTCATGGCCGCTCC
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ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR210500 representing NM_080907
 Red=Cloning site Green=Tags(s)

MADLSLLQEDLPEDADGLGVDDYSSSDVIIIPSALDFVSQDEMLTPLGRLDKYAAENVFNRMVARS
 LDTLREVCGEERDCI AVLERISRLADDSEPTVRAELMEQVPHIALFCQENRPSIPYAFSKYLLPIVVRYL
 ADQNNQVRKTSQAALLALLEQELIERLDVETKVCPLIDL TAPDSNDDVKTEAVAIMCKMAPMVGKDITE
 RLILPRFCMCCDCRMFHV RKVCAANFGDICSVVGQQATEEMLLPRFFQLCSDNVWGV RKACAECFMAVS
 CATCQEI RRTKLSALFINLISDPSRWVRQA AFQSLGPFISTFANPSSSGQC FKDESKSSEDKDRIRDDGV
 VQEEQSRPEDAPSDL SAPHSSARLDGTLEGCAAETPGDSAGDMRVPADSSLLCTL SSESQEAASDAESG
 KKHDNNSKASRPDVG TSSPEPTPLDQEMFNSFHFWRTPLPQIDLDKELQQDPGERPSPERTGDAPAAPV
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 ELPNCSI SEDTSEPLVIAAENMEATPDYIHGGADVGGGGGGFSPDEERRPKVQDVVPQALLDQYLSMT
 DPSRAQTVDEIAKHCAYS L PGVALTLGRQNWHLRETYETLASDMQWKVRRTLAFSIELHAVILGDQLT
 AADLVPIFNGLKDLDEVRI GVLKHLHDFLKLHIDKRREYL YLQEQFLVTDNSRNWRFRAE LAEQLILL
 LELYSRVDYDYL RPIALNLCADKVSSVRWISYKLVSEMVKKLHMATPPTFGVELINELVENFGRCPKWS
 GRQAFVVCQTVIEDDCLPMDQF AVHLMPHLLTLANDRVPNVRVLLAKTLRQTLL EKEYFLASASCHQEA
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TRTRPLEQKLISEEDLAANDILDYKDDDDKV

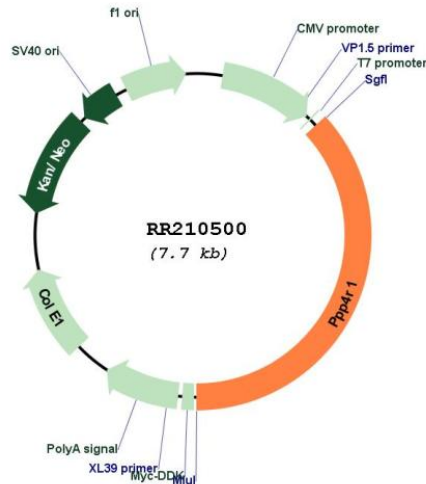
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_080907

ORF Size: 2853 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method:

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

RefSeq: [NM_080907.2](#), [NP_543183.1](#)

RefSeq Size: 3782 bp

RefSeq ORF: 2856 bp

Locus ID: 140943

UniProt ID: [Q8VI02](#)

Cytogenetics: 9q37

MW: 105.6 kDa

Gene Summary: Regulatory subunit of serine/threonine-protein phosphatase 4. May play a role in regulation of cell division in renal glomeruli. The PPP4C-PPP4R1 PP4 complex may play a role in dephosphorylation and regulation of HDAC3 (By similarity).[UniProtKB/Swiss-Prot Function]